

PTO-1449 (Modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 3357

APPLICATION NUMBER:

09/659,599

APPLICANT: McGALL

FILING DATE:

9/11/00

GROUP ART UNIT: 1626

1635

EXAMINER: J. E. PPS

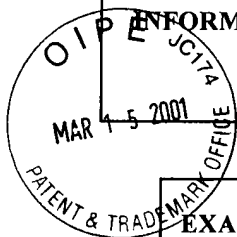
INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

U.S. PATENT DOCUMENTS

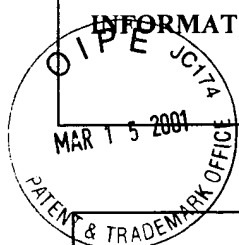
EXAMINER INITIALS	CITE NO.	US PATENT NUMBER	DATE	NAME	CLASS	SUB CLASS
<i>See</i>	AA	5,445,934	08-20-1995	Fodor, et al.	8	8
<i>See</i>	AB	5,384,261	01-24-1995	Winkler, et al.	8	8
<i>See</i>	AC	5,200,051	04-06-1992	Cozzette, et al.	8	8
<i>See</i>	AD	5,143,854	09-01-1992	Pirrung, et al.	8	8
<i>See</i>	AE	5,424,186	06-13-1995	Fodor, et al.	8	8
<i>See</i>	AF	5,430,136	07-04-1995	Ureda, et al.	8	8
<i>See</i>	AG	5,489,678	02-06-1996	Fodor, et al.	8	8
<i>See</i>	AH	5,639,603	06-17-1997	Dower, et al.	8	8
<i>See</i>	AI	5,677,195	10-14-1997	Winkler, et al.	8	8
<i>See</i>	AJ	5,700,637	12-23-1997	Southern, et al.	8	8
<i>See</i>	AK	2,646,430	07-21-1953	Brooker, et al.	8	8
<i>See</i>	AL	6,022,963	02-08-2000	McGall, et al.	8	8

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	CITE NO.	FOREIGN PATENT NUMBER	DATE	NAME
<i>See</i>	BA	WO 94/10128	05-11-1994	Holmes
<i>See</i>	BB	WO 92/10092	06-25-1992	Fodor
<i>See</i>	BC	WO 90/15070	12-13-1990	Pirrung
<i>See</i>	BD	WO 89/10977	09-02-2000	Southern



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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS
 (Including Author, Title, Date, Pertinent Pages, Etc.)

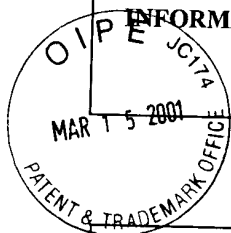
EXAMINER INITIALS	CITE NO.	TITLE OF ARTICLE
<i>JE</i>	CA	BOS et al., "Amino-acid substitutions at codon 13 of the N-ras oncogene in human acute myeloid leukaemia" Nature 315:726-730 (1985).
<i>JE</i>	CB	HOCHGESCHWENDER et al., "Preferential expression of a defined T-cell receptor .beta.-chain gene in hapten-specific cytotoxic T-cell clones" Nature 322:376-378 (1986).
<i>JE</i>	CC	VERLAAN-de VRIES et al., "A dot-blot screening procedure for mutated ras oncogenes using synthetic oligodeoxynucleotides" Gene 50:313-320 (1986).
<i>JE</i>	CD	ELDER, J.K., "Analysis of DNA Oligonucleotide Hybridization Data by Maximum Entropy" Maximum Entropy and Bayesian Methods, Proc. 12th Intl. Workshop, Paris, France, pp. 363-371 (1993).
<i>JE</i>	CE	GEYSEN et al., "Strategies for epitope analysis using peptide synthesis" J. Immunol. Meth. 102:259-274 (1987).
<i>JE</i>	CF	HOUGHTEN et al., "Generation and use of synthetic peptide combinatorial libraries for basic research and drug discovery" Nature 354:84-86 (1991).
<i>JE</i>	CG	LAM et al., "A new type of synthetic peptide library for identifying ligand-binding activity" Nature 354:82-84 (1991).
<i>JE</i>	CH	SOUTHERN et al., "Analyzing and Comparing Nucleic Acid Sequences by Hybridization to Arrays of Oligonucleotides: Evaluation Using Experimental Models" Genomics 13:1008-1017 (1992).
<i>JE</i>	CI	FODOR et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," Science, 251, 767-778 (1991).
<i>JE</i>	CJ	FOURREY et al., "1,1-Bis-(4-Methoxyphenyl)-1'-Pyrenyl Methyl (bmpm): A New Fluorescent 5' Protecting Group for the Purification of Unmodified and Modified Oligonucleotides," Tetrahedron Letters, 28(43), 5157-5160 (1987).
<i>JE</i>	CK	FURUTA et al., "New Photochemically Labile Protecting Group for Phosphates," Chemistry Letters, 1179-1182 (1993).
<i>JE</i>	CL	FURUTA et al., "Direct Esterification of Phosphates with Various Halides and Its Application to Synthesis of cAMP Alkyl Triesters," J. Chem. Soc. Perkin Trans., 1, 3139-3142 (1993).
<i>JE</i>	CM	GIVENS et al., "Photochemistry of Phosphate Esters," Chem. Rev., 93, 55-66 (1993).
<i>JE</i>	CN	IWAMURA et al., "1-(.alpha.-Diazobenzyl)pyrene: A Reagent for Photolabile and Fluorescent Protection of Carboxyl Groups of Amino Acids and Peptides," SYNLETT, 35-36 (1991).

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS
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EXAMINER INITIALS	CITE NO.	TITLE OF ARTICLE
<i>JE</i>	CO	IWAMURA et al., "1-Pyrenylmethyl Esters, Photolabile Protecting Groups for Carboxylic Acids," Tetrahedron Letters, 28(6), 679-682 (1987).
<i>JE</i>	CP	IWAMURA et al., "Photoreactivity of 1-Pyrenylmethyl Esters. Dependence on the Structure of the Carboxylic Acid Moieties and the Nature of the Excited States," Chemistry Letters, 1729-1732 (1987).
<i>JE</i>	CQ	OKADA et al., "(1-Pyrenyl)methyl Carbamates for Fluorescent "Caged" Amino Acids and Peptides," Photochemistry and Photobiology, 61(5), 431-434 (1995).
<i>JE</i>	CR	PEASE et al., "Light-generated oligonucleotide arrays for rapid DNA sequence analysis," Proc. Natl. Acad. Sci. USA, 91, 5022-5026 (1994).
<i>JE</i>	CS	HOLMES et al., "Development of a new photo-removable protecting group for the amino and carboxyl groups of amino acids" Peptides: Chemistry, Structure and Biology (Proceedings of the 13th American Peptide Symposium), 110-112 (1994).
<i>JE</i>	CT	YANKEE et al., "Photosensitive Protecting Groups", Journal of the American Chemical Society, 92(21), 6333-6335 (1970).
<i>JE</i>	CU	GORDON et al., "Applications of Combinatorial Technologies to Drug Discovery. 2. Combinatorial Organic Synthesis, Library Screening Strategies, and Future Directions", Journal of Medicinal Chemistry, 37/10, 1385-1401 (1994).
<i>JE</i>	CV	GALLOP et al., "Applications of Combinatorial Technologies to Drug Discovery. 1. Background and Peptide Combinatorial Libraries", Journal of Medicinal Chemistry, 37/9, 1233-1251, (1994).
<i>JE</i>	CW	AJAYAGHOSH et al., "Polymer-Supported Synthesis of Protected Peptide Segments on a Photosensitive O-Nitro (.alpha.-Methyl)Bromobenzyl Resin", Tetrahedron, 44/21, 6661-6666 (1988).
<i>JE</i>	CX	HAMMER et al., "Practical approach to solid-phase synthesis of C-terminal peptide amides under mild conditions based on a photolysable anchoring linkage" Int. J. Peptide Protein Res., 36, 31-45 (1990).
<i>JE</i>	CY	WILLIAMS et al., "Convergent Solid-Phase Peptide Synthesis", Tetrahedron, 49/48, 11065-11133 (1993).



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(Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIALS	CITE NO.	TITLE OF ARTICLE
<i>JE</i>	CZ	RICH et al., "Preparation of a New O-Nitrobenzyl Resin for Solid-Phase Synthesis of tert-Butyloxycarbonyl-Protected Peptide Acids", Journal of the American Chemical Society, 97(6), 1575-3261 (1974)
<i>JE</i>	CAA	WANG et al., "Solid Phase Synthesis of Protected Peptides via Photolytic Cleavage of the .alpha.-Methylphenacy Ester Anchoring Linkage", J. Org. Chem, 41/20, 3258-3261 (1976)
<i>JE</i>	CBB	DYER et al., "Hydrolytic Stabilization of Protected p-Hydroxybenzyl Halides Designed as Latent Quinone Methide Precursors," J. Org. Chem, 64:7988-7995 (1999)
<i>JE</i>	CCC	GARCIA-ECHEVERRIA, "A base labile handle for solid phase organic chemistry", Tetrahedron Letters, Vol. 38, No. 52, pp. 8933-8934 (1997)
<i>JE</i>	CDD	McGALL et al., "The Efficiency of Light-Directed Synthesis of DNA Arrays on Glass Substrates", Journal of the American Chemical Society, 119:22, 5081-5090 (1997)
<i>JE</i>	CEE	BROMIDGE et al., "Novel and Selective 5-HT _{2C/2B} Receptor Antagonists as Potential Anxiolytic Agents: Synthesis, Quantitative Structure-Activity Relationships, and Molecular Modeling of Substituted 1-(3-Pyridylcarbonyl) indolines", J. Med. Chem. 41:1598-1612 (1998)
<i>JE</i>	CFF	BARKER et al., "The Nitration of α - and β -Acyl naphthalenes", Aust. J. Chem., 1995, 48:1969-79
<i>JE</i>	CGG	BOEKELHEIDE et al., "The Conversion of Liloline Derivatives to Quinolinium Salts Using Cyanogen Bromide", J. Org. Chem. 19:504-509 (1954)
<i>JE</i>	CHH	BENNET et al., "A Synthesis of Dihydroindole, Dihydrothionaphthen, and Dihydrobenzofuran", J. Chem. Soc. 74:287 (1941)
<i>JE</i>	CII	MORTENSEN et al., "Improved Preparation of Some Nitroindolines", Org. Prep. Proc. Int. 28:123 (1996)

EXAMINER: <i>Janet Egger</i>	DATE CONSIDERED: <i>5-07-01</i>
EXAMINER: Initial citation if reference was considered. Draw line through citation if not in conformance to MPEP 609 and not considered. Include copy of this form with next communication to applicant.	